AMENDMENTS TO THE ABSTRACT

Please insert the new page containing the abstract which is the next page in this paper.

Abstract of the Disclosure

An oral vaccine contain liposomes and complexed or, preferably entrapped, DNA operatively encoding an antigen in which the liposomes are formed from components including cationic compounds and zwitterionic phospholipids. The hydrophobic groups within the liposome forming components must include at least one group which is saturated. This is believed to raise the transition temperature, rendering the liposomes more stable when delivered orally. The compositions have been found to give detectable increased in IgA levels, secreted immunoglobulins of importance in efficacious oral vaccine delivery.